

Special Issue

Towards Sustainable and Ecofriendly Fiber Reinforced Polymers: Manufacturing, Characterization, Modelling and Applications

Message from the Guest Editors

As the world embarks on its journey to net zero carbon, fibre-reinforced polymers (FRPs) are already playing a critical role in several industries, including energy, marine, construction, and transportation. The key reason is FRPs' versatility; for example, enhanced strength in wind turbine blades, improved durability and corrosion resistance in marine applications, and lightweight properties for vehicles and aircraft, which, in turn, help to reduce emissions. This Special Issue aims to collect research papers and review articles with original contributions to the development, production, testing, and modelling of FRPs, with a special focus on eco-friendly aspects, such as natural fibres, bio-sourced resin, thermoplastic composites, biodegradability, recycling, repurposing, and enhanced longevity. This Special Issue covers the following areas, among other topics:

- The manufacturing of FRPs;
- The experimental characterization of novel, eco-friendly FRPs;
- The simulation of damage and failure in FRPs;
- The multi-scale modelling of FRPs;
- The life-cycle assessment of FRPs;
- Recycling and repurposing technologies for thermoset and thermoplastic FRPs.

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Deadline for manuscript submissions

closed (31 May 2025)



Polymers

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed



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Message from the Editor-in-Chief

Since its foundation in 2009, *Polymers* has developed into an internationally renowned, extremely successful open access journal. The editorial team and the editorial board dedicatedly combine open-access publishing and high-quality rigorous peer reviewing. The performance of the journal has proven this strategy to be well-suited and highly successful. This is reflected in the increasing impact factor of *Polymers*, the most recent one being 4.7.

I would like to invite you to contribute to the success of the journal by sending us your high quality research papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Alexander Böker

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